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Searches for effects of the electromagnetic fields with ALICE

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Content

Heavy-ion collisions provide a unique opportunity to study novel QCD phenomena. The interplay between the chiral anomaly and the magnetic/vortical field created in such collisions can give rise to anomalous chiral effects. In addition, the magnetic field might affect the kinematics of final state particles. In this talk, the latest results from ALICE searches for effects of the electromagnetic fields, including the Chiral Magnetic Effect, the Chiral Magnetic Wave, the Chiral Vortical Effect, and charge-dependent directed flow measurements, are reported in Pb-Pb and Xe-Xe collisions recorded by the ALICE detector.

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